

## 2. Appendix 1 - Region Specific Services - Technical Descriptions for Circuit Switched Serving Arrangements

### AIN Alternate Routing (4028)

This service allows customers to establish predetermined alternate routing plans for incoming voice and data traffic (e.g., MLHG, DID). Incoming calls can be rerouted to multiple (or a different) locations and/or announcements during varied emergency situations.

Generic Name of ONA Service	Product Name	BSE or CNS
AIN Alternate Routing	BS - CrisisLink <sup>SM</sup>	CNS

#### FEATURE OPERATION:

At the time this service is established, the customer predefines a set of directory numbers (DNs) to be protected in the event of a crisis. All DNs in the set receive the same default alternate handling when the service is activated. The DN set is loaded through the AIN Service Management System (SMS) into the Switching Control Point (SCP), where it remains dormant until activated via customer request to the Service Center. When a customer calls to activate their service, they may activate their default treatment, or may specify changes at the time of activation.

As an example, the incoming calls to a customer can be rerouted to the predefined DNs as follows:

- A% of calls are redirected to Backup DN 1
- B% of calls are redirected to Backup DN 2
- C% of calls are redirected to Backup DN 3
- D% of calls are redirected to a DN associated with a customized announcement
- E% of calls are completed to the number originally dialed (partial crisis/restore)
- F% of calls are sent to a standard switch based announcement

This service uses two AIN 0.1 triggers: the Public Office Dialing Plan (PODP) trigger and the Termination Attempt Trigger (TAT). The distinction between the two is as follows:

- A PODP trigger is assigned to DNs which are served by a 5ESS terminating SSP (ASP Release 0.1B or later).
- A TAT is assigned to DNs which are served by a DMS-100 terminating SSP (NA003 or later).

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<sup>SM</sup> CrisisLink is a service mark of BellSouth Corporation.

**AIN Single Number Access (4030)**

This service allows a data network provider to deliver one-number local call access to their online offerings from anywhere in an RBOC's serving area. All charges for access are billed to the data network provider enabling them to cost-effectively expand service throughout the region, while calling charges are aggregated on a regionwide basis to ensure low per-minute cost.

Generic Name of ONA Service	Product Name	BSE or CNS
AIN Single Number Access*	BS - DataReach <sup>SM</sup>	BSE

**FEATURE OPERATION:**

At the time this service is established, a data network provider is assigned a number in a dedicated NXX. This 7-digit number can be reserved for the customer throughout the RBOC serving area. Based on the wire center of the originating party, the call is forwarded to a provider-designated location within the originating LATA. This service uses the Public Office Dialing Plan (PODP) trigger to determine the proper routing for the call.

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\* Service is currently only available to existing BellSouth subscribers in Mississippi.  
<sup>SM</sup> DataReach is a service mark of BellSouth Corporation.

**AIN Terminating Data Collection/Customized Routing (4029)**

This service provides a customer with pertinent terminating traffic data information as well as the capability for customized routing arrangements.

Generic Name of ONA Service	Product Name	BSE or CNS
AIN Traffic Data/Routing	BS - AdWatch <sup>®</sup>	CNS

**FEATURE OPERATION:**

The customer's Directory Number (DN) becomes a "virtual" number either by reusing the customer's existing number (if it resides in a 5ESS switch), or by assigning the customer a new number in a 5ESS switch.

The customer's "virtual" number is listed as the customer's number in the Directory. Calls directory to this number can be handled as follows:

**Data Collection**

- counts of calls made to the virtual number including the calling party number
- call detail based on calls that receive busy or don't answer
- the customer is able to access the service via a VT100 terminal at up to 19.2 kbps, and the customer will be able to view and download call records.

**Routing Functionality**

- routing by day of week/time of day/% distribution to up to three locations
- routing from the virtual number to a set of locations based on geographic origination of the call

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<sup>®</sup> AdWatch is a registered trademark of BellSouth Corporation.

**Automatic Disaster Recovery of DID (5010)**

This capability enables an ESP with multiple wire centers to provision the same Direct Inward Dialing (DID) numbers to automatically transfer to an alternate wire center in the event of a failure. The DID number will reside at the normal serving wire center. The wire centers must be connected by 1.544 Mbps interoffice facilities.

Generic Name of ONA Service	Product Name	BSE or CNS
Automatic Disaster Recovery of DID	NX - DID/DOD Disaster Recovery Service	BSE

**FEATURE OPERATION:**

This feature is activated in the event of a failure in the loop between the normal wire center and the customer premises. Incoming calls to lines connected to the normal wire center will be rerouted over the 1.544 Mbps trunks to the alternate wire center for completion. PBX customers obtain DID service from their normal serving wire center and an alternate wire center designated by the telephone company. DID service from the normal wire center and the alternate wire center will share an NXX that will reside at the normal wire center.

**TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:**

1. This feature is available in the following central office switches:

Switch Type	5ESS	DMS-100
Earliest Generic Release	5E2	BCS27

2. Outgoing calls from the alternate wire center will not be affected.

**Automatic Delivery (2019)**

When an end user encounters a busy or don't answer condition on outgoing calls, this feature automatically forwards the calling party's call to a predetermined, dialable number served by the same or different central office switch.

<b>Generic Name of ONA Service</b>	<b>Product Name</b>	<b>BSE or CNS</b>
Automatic Delivery	AM - Automatic Delivery	CNS

**FEATURE OPERATION:**

This feature, where available, will forward calls from POTS and business lines to a dialable number.

**TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:**

1. This feature is available in the following central office switches:

<b>Switch Type</b>	<b>5ESS</b>	<b>DMS-100</b>
Earliest Generic Release	5E12	NA 006

References: not available

This service, if offered as a BSE, is associated with the Circuit Switched Trunk Type BSA.

**Bridging - Line (5001)**

This provides the ability to connect an end user's switched exchange service to an ESP (e.g., telephone answering or voice messaging service provider). This capability is the traditional bridged service that provided answering services with a direct connection to the client's line.

Generic Name of ONA Service	Product Name	BSE or CNS
Bridging - Line	NX - Bridging (Secretarial)	BSE

Reference: GR 672 LSSGR: Bridge Services On An IDLC System, FSD 20-02-2010 (A Module of LSSGR, FR-64), Issue 1, June 2000, (replaces TR-TSY-000672, Issue 1 – no technical changes).

This service, if offered as a BSE, is associated with the Circuit Switched Line serving arrangement.

**Call Denial On Line Or Hunt Group (6004)**

This screening option limits terminating Circuit Switched Line calls to completion within the LATA where the Circuit Switched Line resides. InterLATA and International calls are blocked, as well as calls which may potentially terminate outside the LATA. The Call Denial option allows calls to terminate to any NXX within the LATA served by the Circuit Switched Line that does not have a special charge associated with it. Blocked calls are routed to a reorder tone or recorded announcement.

Call Denial On Line Or Hunt Group is useful to 900 services and the ESP industry for fraud control.

This feature is provided in all electronic end offices and, where available, in electro-mechanical end offices.

Generic Name of ONA Service	Product Name	BSE or CNS
Call Denial On Line Or Hunt Group	PB - Call Denial On Line Or Hunt Group	BSE

Reference GR-334 Switched Access Service: Transmission Parameter Limits and Interface Combinations, Issue 1, June 1994 (replaces TR-NWT-000334, Issue 3).

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

**Call Detail Recording Reports - via NXX Screening (8014)**

This service provides for call detail information to be recorded and made periodically available to ESPs via paper or magnetic tape format. The ESP is assigned a unique NXX code which alerts the originating central office to record call detail. Call detail includes: billing name, address and phone number; calling and called number; message date; and connect and disconnect time. Call detail is provided only for intraLATA calls. The ESP does not have to obtain access via Feature Groups A or D in order to obtain this service.

Generic Name of ONA Service	Product Name	BSE or CNS
Call Detail Recording Reports - via NXX Screening	Qwest - Network Access Service	BSE

Reference: GR 621 LSSGR: Traffic Data Provision Features, FSD 02-02-1200 (A Module of LSSGR, FR-64), Issue 1, June 2000 (replaces TR-NWT-000621, Issue 1 – no technical changes).

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.



**Call Forwarding Originating (2003)**

Call Forwarding Originating is an optional basic service which is provisioned as an originating subscriber feature. It is responsible for detecting a busy or no-answer condition, and when detected, can invoke an announcement which offers the caller an option to leave a message. Call Forwarding Originating provides a trigger initiative to query the AIN Service Control Point (SCP) for routing information to direct the caller to their messaging provider of choice.

<b>Generic Name of ONA Service</b>	<b>Product Name</b>	<b>BSE or CNS</b>
Call Forwarding Options	AM - Special Delivery Service	CNS

**FEATURE OPERATION:**

Since the end office portion of the feature can only route to one telephone number, AIN functionality is combined with this feature to provide the capability to route to multiple providers. The AIN SCP stores a table that maps the originating telephone number to a chosen messaging provider. When the SCP is queried, the appropriate provider's telephone number is returned to the end office for final routing. The SS7 links will transport call set-up information (ISUP) between each end office, as well as provide connectivity to and from the SCP for call monitoring and routing information. The STP switches are responsible for routing SS7 messages to the appropriate AIN node (i.e., SCP, end office, tandem, etc.). This feature is modified on a line basis by a service order.

**TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:**

1. This feature is available in the following central office switches:

<b>Switch Type</b>	<b>DMS-100</b>
Earliest Generic Release	NA-004

References: Not available.

**Call Forwarding To Multiple Locations (6002)**

This capability allows a subscriber/user to selectively redirect calls arriving at his/her station set to two (and sometimes more than two) different answering points including multiple messaging services based on specific call situations.

Generic Name of ONA Service	Product Name	BSE or CNS
Call Forwarding To Multiple Locations	PB - Dual Telephone Coverage	CNS

References: Not available.

This service, if offered as a BSE, is associated with the Circuit Switched Line type basic serving arrangement.

**CFDA To DID Intraswitch (8022)**

Call Forwarding Don't Answer to DID Intraswitch allows calls to be forwarded to a DID number served from the same central office as the forwarded call when the called number fails to answer. This service is associated with DID service in 1A ESS central office switches and allows the DID trunk to receive calls forwarded on a Don't Answer basis from lines equipped with Call Forwarding Don't Answer. The called number and the forwarded-to number must be in the same central office switch.

Generic Name of ONA Service	Product Name	BSE or CNS
CFDA To DID Intraswitch	BS - CFDA	CNS *
	Qwest - Expanded Answer	CNS

References: not available.

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\* This capability is inherent in certain 1A ESS central office switches.

**Call Transfer On DID (3002,4026,8034)**

This capability allows an ESP with Direct Inward Dial (DID) trunks to add another party to an established incoming call, to perform a three way conference. After establishing the conference, the ESP may drop from the connection without disconnecting the remaining two parties. This action allows the ESP to transfer specific calls and free the ESP's line to receive another call.

Generic Name of ONA Service	Product Name	BSE or CNS
Call Transfer On DID	BA - 2-Way DID & Call Transfer	BSE
	BS - User Transfer On DID	BSE
	Qwest - DID 2-Way Call Transfer	BSE

1. This feature is available in the following central office switches:

Switch Type	1A ESS	5ESS
Earliest Generic Release	1AE8A	5E2

2. The DID trunk must be 2-way with E&M signaling.
3. In the 5ESS central office switches, the DID trunk must have DTMF capabilities.

This service, if offered as a BSE, is associated with the Circuit Switched Trunk basic serving arrangement.

**Call Waiting (2005,3017,4018,5005)**

The Call Waiting (CW) feature informs a busy station user, by a burst of tone, that another call is waiting. The busy station user may hang up and answer the second call or can place the original call on hold and answer the second call.

Generic Name of ONA Service	Product Name	BSE or CNS
Call Waiting	AM - Call Waiting	CNS
	BA - Call Waiting	CNS
	BS - Call Waiting	CNS
	NX - Call Waiting	CNS
	PB - Call Waiting	CNS
	Qwest - Call Waiting	CNS

**FEATURE OPERATION:**

An incoming call to a busy line with CW receives audible ringing. The line with Call Waiting receives a CW tone that is repeated once about 10 seconds after the initial burst of tone.

The line with CW may respond to the CW tone in one of three ways. The called party may disconnect from the existing call. The telephone will then be rung and, if answered, the called party will be connected to the waiting call. The second alternative allows the line with Call Waiting to flash the switch-hook (.75 to 1.5 seconds) and, thereby, place the original call on hold and connect to the incoming call. The party with CW may alternate between calls by flashing the switch-hook. The third alternative is not to respond to the CW tone.

**TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:**

1. This feature is available in the following central office switches:

Switch Type	1A ESS	5ESS	DMS-100
Earliest Generic Release	1AE8	5E2	BCS17

2. If a line has Call Forwarding Busy Line (CFBL) and CW, the CW service normally takes precedence.
3. Given that a line has both CFBL and CW and is in the talk state, the first call attempting to terminate is treated as a CW call. Subsequent termination attempts are call forwarded.
4. On a line with both a make-busy key and CW, make-busy key takes precedence when the key is activated.

5. References:

- GR-571 LSSGR: Call Waiting FSD 01-02-1201 (A Module of LSSGR, FR-64), Issue 1, June 2000, (replaces TR-TSY-000571 Issue 1 & Revision 1 – no technical changes).
- GR-573 LSSGR: Business Group Call Waiting FSD 01-02-1205 (A Module of LSSGR, FR-64), Issue 1, June 2000 (replaces TR-TSY-000573 Issue 1 – no technical changes).
- GR-219 LSSGR: CLASS<sup>SM</sup> Feature: Distinctive Ringing/Call Waiting, FSD 01-01-1110 (A Module of LSSGR, FR-64), Issue 1, June 2000 (replaces TR-TSY-000219 Issue 2 & Revision 1 & Bulletin 2 – no technical changes).

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

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<sup>SM</sup> CLASS is a service mark of Telcordia Technologies, Inc. (formerly Bellcore)

**Call Waiting With Forwarding Options (6001)**

This service has been merged with Generic Service #1093 (Call Forwarding Don't Answer After Call Waiting). This change was made for the January 1996 update of the ONA Services User Guide.

**Called/Calling Number Information - ANI (4005)**

Automatic Number Identification (ANI) provides the delivery of the calling party station billing number and called number to a customer during call establishment.

A one-way dedicated trunk group is provided between the end offices and the Traffic Operator Position System (TOPS) Tandem switch. These trunks provide the called number and ANI information to the TOPS Tandem switch. The TOPS Tandem switch provides the software and hardware capability used to support the ANI service. A dedicated customer trunk group from the TOPS Tandem switch to the customer's location provides the connection for ANI and called number delivery to the customer.

Uniform Access Number (UAN) service is required to support ANI service.

<b>Generic Name of ONA Service</b>	<b>Product Name</b>	<b>BSE or CNS</b>
Called/Calling Number Information - ANI	BS - Automatic Number Identification	BSE

References: not available.

This service, if offered as a BSE, is associated with the Circuit Switched Trunk basic serving arrangement.



**Calling Name Delivery (8045)**

Calling Name Delivery, available to ISDN PRI subscribers, allows for the delivery of the calling party's name, as well as the calling party's number. The customer must have customer premises equipment (CPE) that will display the calling name.

<b>Generic Name of ONA Service</b>	<b>Product Name</b>	<b>BSE or CNS</b>
Calling Name Delivery	Qwest – Calling Name Delivery	BSE

References: not available.

**Calling Name Identification (8049)**

Calling Name Identification (CNI) is available to ISDN BRI subscribers. It displays the name and number of the calling party on the called party's ISDN terminal at the time of the incoming call. The name information includes up to 15 name characters, a private indication, or an unavailable indication. If the calling party number is unavailable, then the calling party name is also unavailable.

Generic Name of ONA Service	Product Name	BSE or CNS
Calling Name Identification	Qwest – Calling Name Identification	CNS

References: not available.

**Coin Phone With Post Dialing Tone Capability \*\***

**\*\* NOTE - this capability was moved to the main section of the ONA Services User Guide for the July 1993 update.**

**Custom Service Areas (4006)**

Custom Service Area (CSA) service provides the customer with the capability of defining a specific geographical area from which to receive his client's traffic. CSA is implemented as a blocking function on a per end office basis.

Uniform Access Number is also required for this service.

The CSA feature is provided through translation capabilities associated with a Traffic Operator Position System (TOPS) Tandem switch. Each end office in a LATA is connected to a TOPS Tandem switch through a dedicated one way trunk group.

Generic Name of ONA Service	Product Name	BSE or CNS
Custom Service Areas	BS - Custom Service Areas	BSE

References: not available.

This service, if offered as a BSE, is associated with the Circuit Switched Line or Circuit Switched Trunk basic serving arrangements.

**Customer Changeable Number of Rings (2004\*\*)**

**\*\* NOTE** - this capability was moved to the main section of the ONA Services User Guide for the July 1996 update.

**Cut Off On Disconnect \*\***

**\*\* NOTE - this capability was moved to the main section of the ONA Services User Guide for the July 1993 update.**